Energy Storage R.10-12-007
Revised Use Cases and
Cost-Benefit Analysis Models

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Energy Division
Grid Planning & Reliability
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Remote Access

WebEx Information
Meeting Number: 744-813-905
Meeting Password: storage
Go to:
https://van.webex.com/van/j.php?ED=194641317&UID=491292852&PW=NMTc2MmMxMmU2&RT=MiM0

Call in #:
877-930-0524

Passcode:
3494395

*Note: *6 to mute/unmute*

Upon entry to the call, please place yourself on mute, and remain on mute unless you are asking a question

Workshop Goals

- To review and finalize Draft versions of Energy Storage Use Cases

- To discuss how to employ models and tools for conducting cost-benefit analysis of specific energy storage Use Cases:
  - DNV KEMA ES Select/Distribution/Storage Modeling
  - EPRI/E3 Energy Storage Valuation Tool (ESVT)

- To review and discuss operational considerations and assumptions that should be incorporated in the analysis.

Agenda for the Workshop

Action Item	Time Allotted	Clock
Introductions and Update	10 minutes	9:30 am – 9:40 am
Demand-Side Use Cases	80 minutes	9:40 am –11:00 am
Break	15 minutes	11:00 am –11:15 am
Bulk Use Cases	45 minutes	11:15 am – 12:00 pm
Lunch	60 minutes	12:00 pm – 1:00 pm
On-site Gas-Fired VER Sited	20 minutes 20 minutes	1:00 pm – 1:20 pm 1:20 pm - 1:40 pm
Distribution Use Cases	50 minutes	1:40 pm – 2:30 pm
Break	15 minutes	2:30 pm – 2:45 pm
DNV KEMA presentation	60 Minutes	2:45 pm – 3:45 pm
Discussion and Wrap Up	15 minutes	3:45 pm – 4:00 pm

Prioritized Scenarios/Use Cases

Scenario/Use Case	Primary End Use	Lead
• **Demand-Side Applications**	End-use bill management	**CESA**
– PV Charging	Peak shaving, Distribution deferral	**CPUC/Green Frog**
– Permanent load shift	Peak shaving, bill management	**CESA**
– On-site renewables with storage	With and w/o Market Participation	**CESA**
– Utility Controlled Behind the Meter	Market Participation	**CESA**
• **Bulk Storage**		**PG&E**
– Bulk Storage	Energy/Ramping	
– Ancillary Services	Ancillary Services	
– On-Site Generation Storage	Energy/Ramping/AS	
– On-Site VER Storage	Renewables integration	**SCE**
• **Distributed Storage**		**SDG&E**
– Distributed Peaker	Energy cycling to meet peak	
– Distribution Storage	Defer upgrades	
– Community Energy Storage	Local service reliability	

Elements of Energy Storage Use Cases

1. Overview Section
2. Use Case Description
3. Cost/Benefit Analysis
4. Barriers Analysis & Policy Options
5. Real World Example
6. Conclusion and Recommendations

Thank You!

For further information related to R.10-12-007 please contact :

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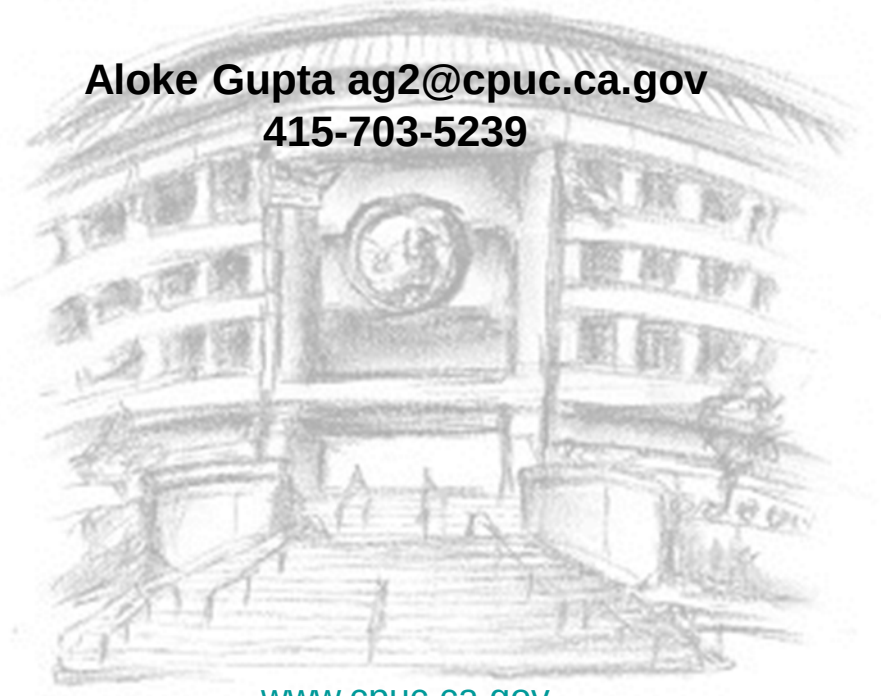

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